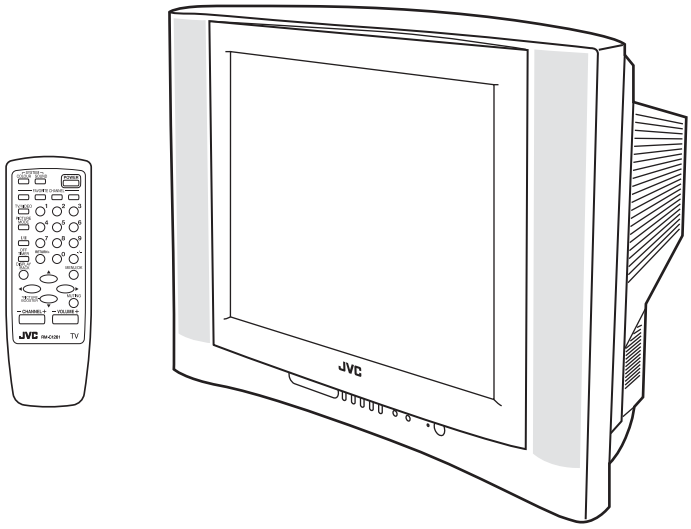
JVC

SERVICE MANUAL

COLOUR TELEVISION

AV-21V115/B

BASIC CHASSIS
CW



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No.YA340
2005/11

3.2 REPLACEMENT OF MEMORY IC

3.2.1 MEMORY IC

This TV uses the following memory IC.

Memory IC: IC702 on MAIN PWB

The memory IC memorizes data for correctly operating the video and deflection circuits. When replacing the memory IC, be sure to use the same type IC written with the initial values of data. In other words, use the specific IC listed in "PRINTED WIRING BOARD PARTS LIST". For its mounting location, refer to "ADJUSTMENT LOCATIONS".

3.2.2 PROCEDURE FOR REPLACING MEMORY IC

1. Power off

Switch the power off and unplug the power cord from the wall outlet.

2. Replacing the memory IC

Replace the memory IC with new one. Be sure to use the memory IC written with the initial data values.

3. Power on

Plug the power cord into the wall outlet and switch the power on.

4. Check and setting of SYSTEM CONSTANT SET:

(1) Press the [DISPLAY] key and the [PICTURE MODE] key on the remote control unit simultaneously.
The SERVICE MENU screen will be displayed.(See Fig.1.)

(2) In the SERVICE MENU, press the [DISPLAY] key and [PICTURE MODE] key simultaneously. Then, the SYSTEM CONSTANT SET screen will be displayed.(See Fig.2.)

(3) Check whether the setting values of the SYSTEM CONSTANT SET are the same as those indicated in Table 1.
If the value is different, select the setting item with the MENU [▲] / [▼] key, and set the correct value with the MENU [◀] / [▶] key.

(4) Press the [DISPLAY] key twice to return to the normal screen.

5. Receive channel setting

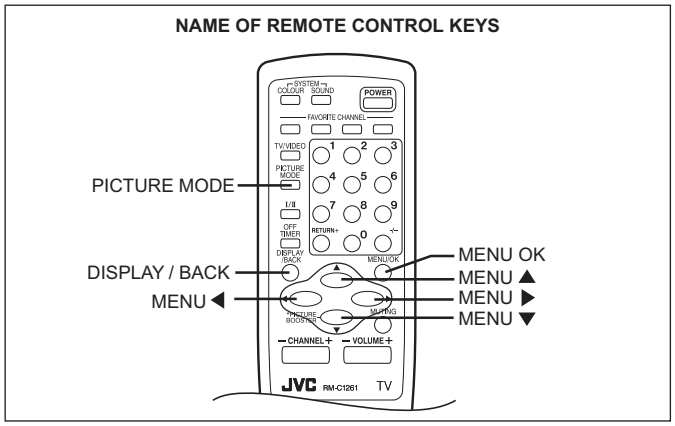
Refer to the **OPERATING INSTRUCTIONS** and set the receive channels (channels preset).

6. User setting

Check the user setting values in Table 2 and Table 3. If setting value is different, set the correct value.
For setting, refer to the **OPERATING INSTRUCTIONS**.

7. Setting of SERVICE MENU

Verify the setting for each setting item in the SERVICE MENU.(See Table 4.) If readjustment is necessary, perform adjustment referring to "ADJUSTMENTS PROCEDURE".



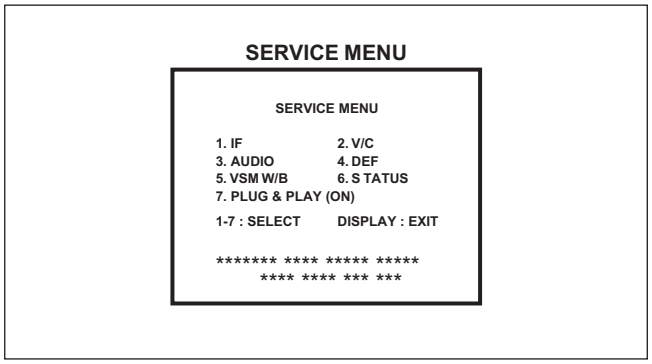


Fig.1

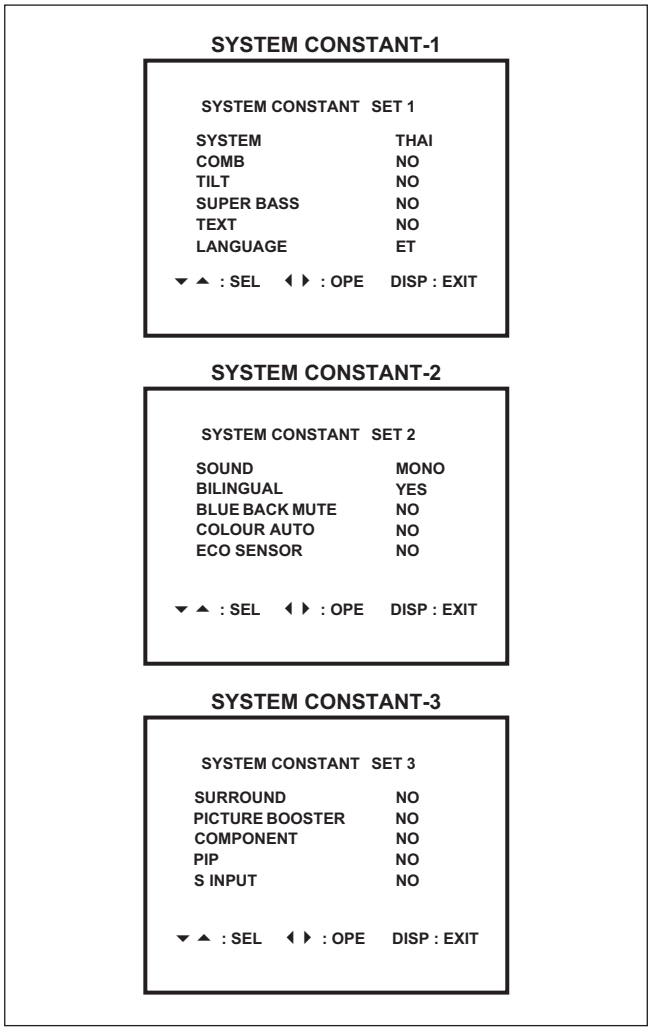


Fig.2

3.2.3 FACTORY SETTING VALUE

■ SETTING OF SYSTEM CONSTANT SET

Setting item	Setting content	Setting value
SYSTEM	MULTI↔TRIPLE↔PAL↔THAI	THAI
COMB	YES ↔ NO	NO
TILT	YES ↔ NO	NO
SUPER BASS	YES ↔ NO	NO
TEXT	SINGLE ↔ NO ↔ PAT	NO
LANGUAGE	E/T	E/T
SOUND	STEREO ↔ PB ↔ MONO	MONO
BILINGUAL	YES ↔ NO	YES
BLUE BACK MUTE	YES ↔ NO	NO
COLOUR AUTO	YES ↔ NO	NO
ECO SENSOR	YES ↔ NO	NO
SURROUND	YES ↔ NO	NO
PICTURE BOOSTER	YES ↔ NO	NO
COMPONENT	YES ↔ NO	NO
PIP	YES ↔ NO	NO
S INPUT	YES ↔ NO	NO

Table 1

■ SETTING OF BASIC FUNCTIONS

Setting item	Setting value
POWER	Off
SUB POWER	On
VOLUME	15
COLOR SYSTEM	PAL
SOUND SYSTEM	B/G
PICTURE MODE (VSM)	BRIGHT
OFF TIMER	OFF
CHANNEL POSITION	PR1

Table 2

■ SETTING OF MENU SCREEN

Setting item	Setting value
INPUT	TV
VNR	AUTO
AUTO SHUTOFF	OFF
CHILD LOCK	OFF
BLUE BACK	ON
AUTO PROGRAM	Refer to OPERATING INSTRUCTIONS
EDIT / MANUAL	Refer to OPERATING INSTRUCTIONS
LANGUAGE	THAI
TINT	Centre
COLOUR	Centre
BRIGHT	Centre
CONT	Maximum
SHARP	Centre
WHITE BALANCE	COOL
AI VOLUME	ON
FAVORITE CH RED	PR01
FAVORITE CH GREEN	PR02
FAVORITE CH YELLOW	PR03
FAVORITE CH BLUE	PR04

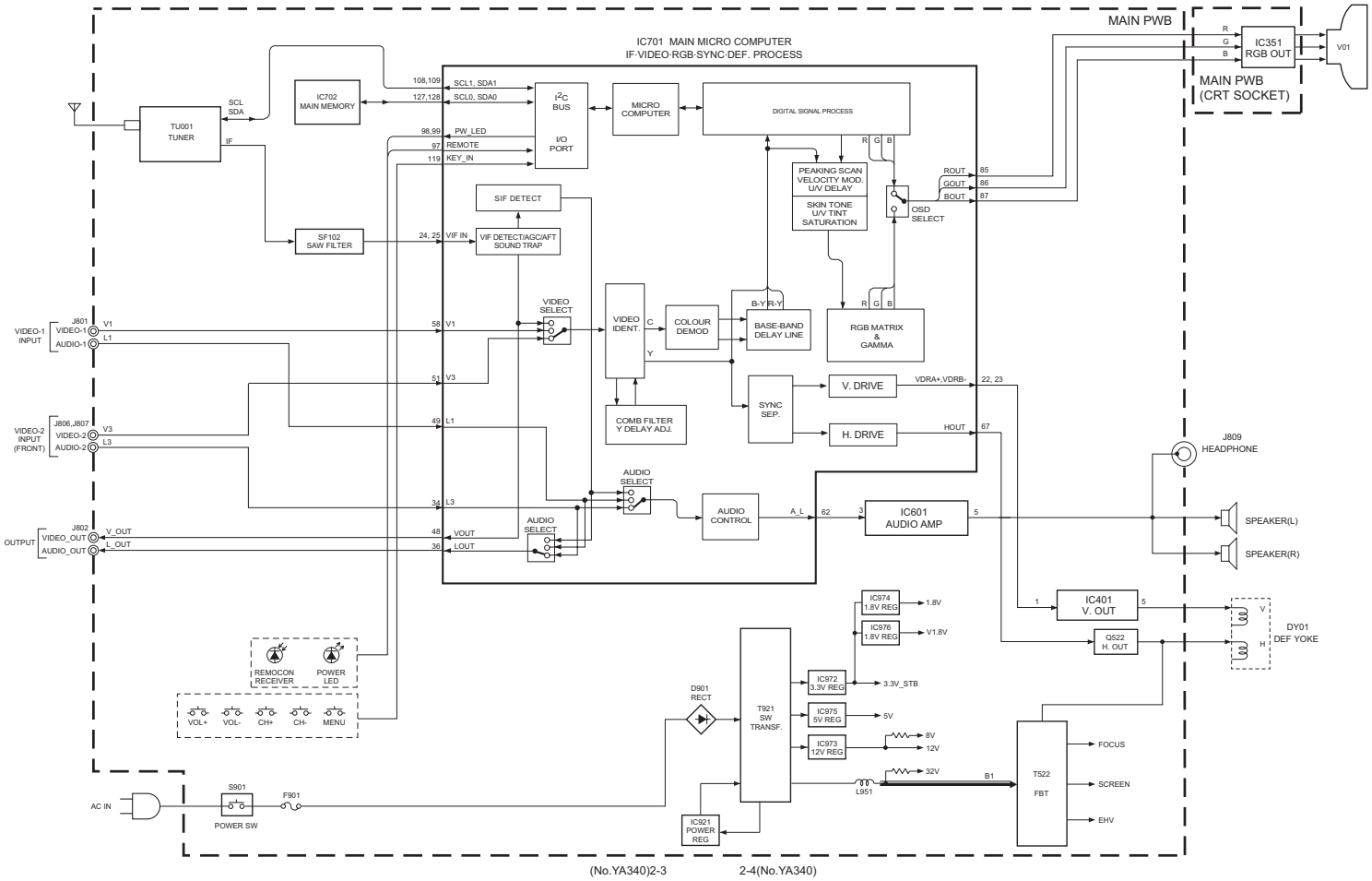
Table 3

■ SERVICE MENU SETTING ITEMS

Setting item	Setting value
1. IF	1. VCO 2. DELAY POINT
2. V/C	1. SCREEN DATA 2. CUTOFF(B/G) 3. WDR(R/G/B) 4. BRIGHT(TV/VDO 1/2) 5. CONT(TV/VDO 1/2) 6. COLOUR(TV/VDO1/2) 7. TINT(TV/VDO 1/2) 8. SHARP [Do not adjust] 9. Y DELAY [Do not adjust] 10. TINT DVD [Do not adjust] 11. AMP T. SHARP
3. AUDIO **[Do not adjust]**	1. DCXO ADJ 2. NICAM lower ERRLIM 3. NICAM upper ERRLIM 4. A2 ID THR 5. MENU EQUALIZER
4. DEF	1. V-SHIFT 2. V-SLOPE 3. V-SIZE 4. H-CENT 5. H-SIZE 6. TRAPEZ 7. EW-PIN 8. COR-UP 9. COR-LO 10. ANGLE 11. BOW 12. V-S.CR 13. V-LIN 14. V-ZOOM 15. V-SCROLL
5. VSM W/B **(BRIGHT/STANDARD/SOFT)** **(COOL/WARM/NORMAL)**	1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. HUE 1. R DRIVE 2. G DRIVE 3. B DRIVE
6. STATUS **[Display only]**	
7. PLUG & PLAY(ON) **[Display only]**	

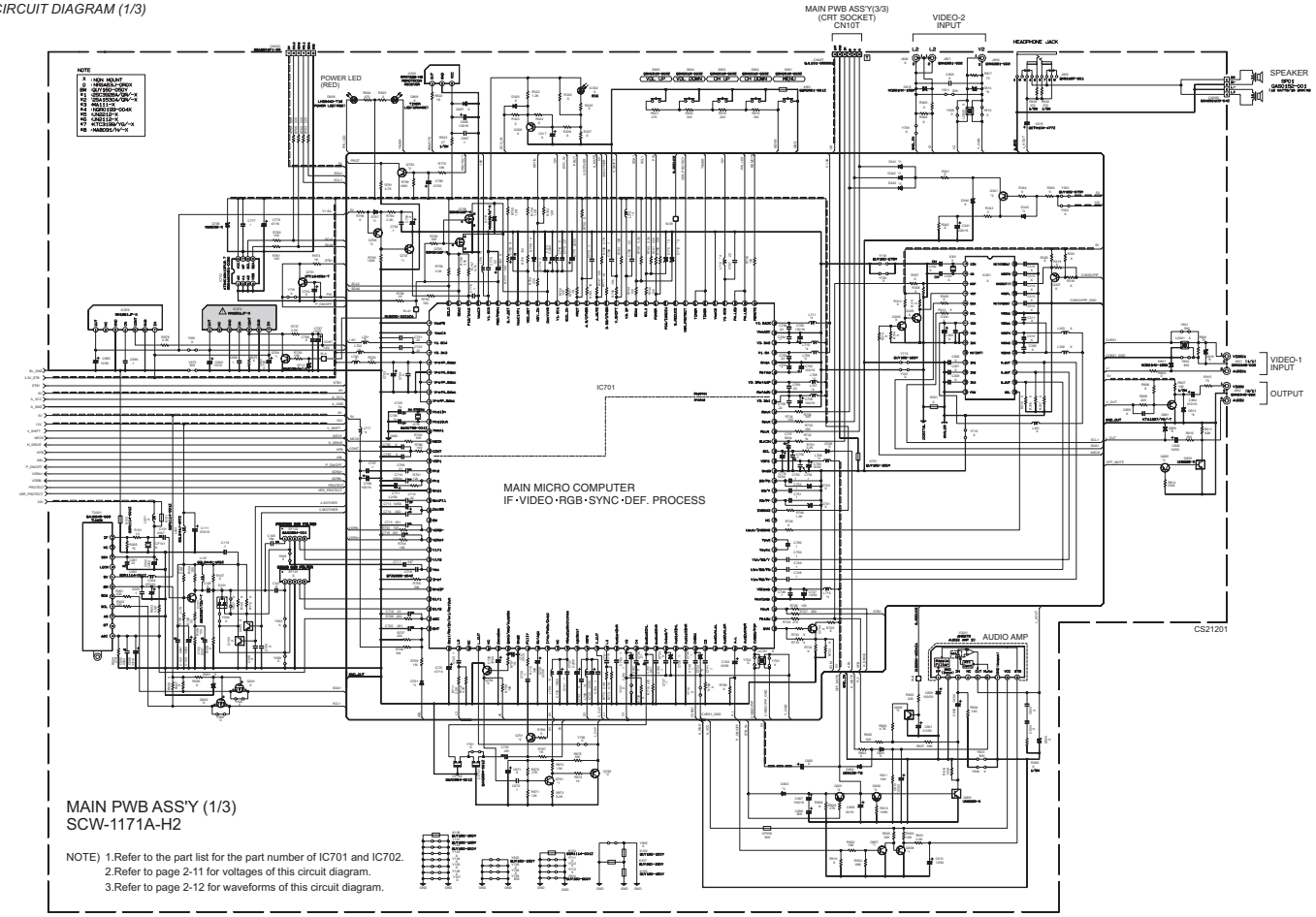
Table 4

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

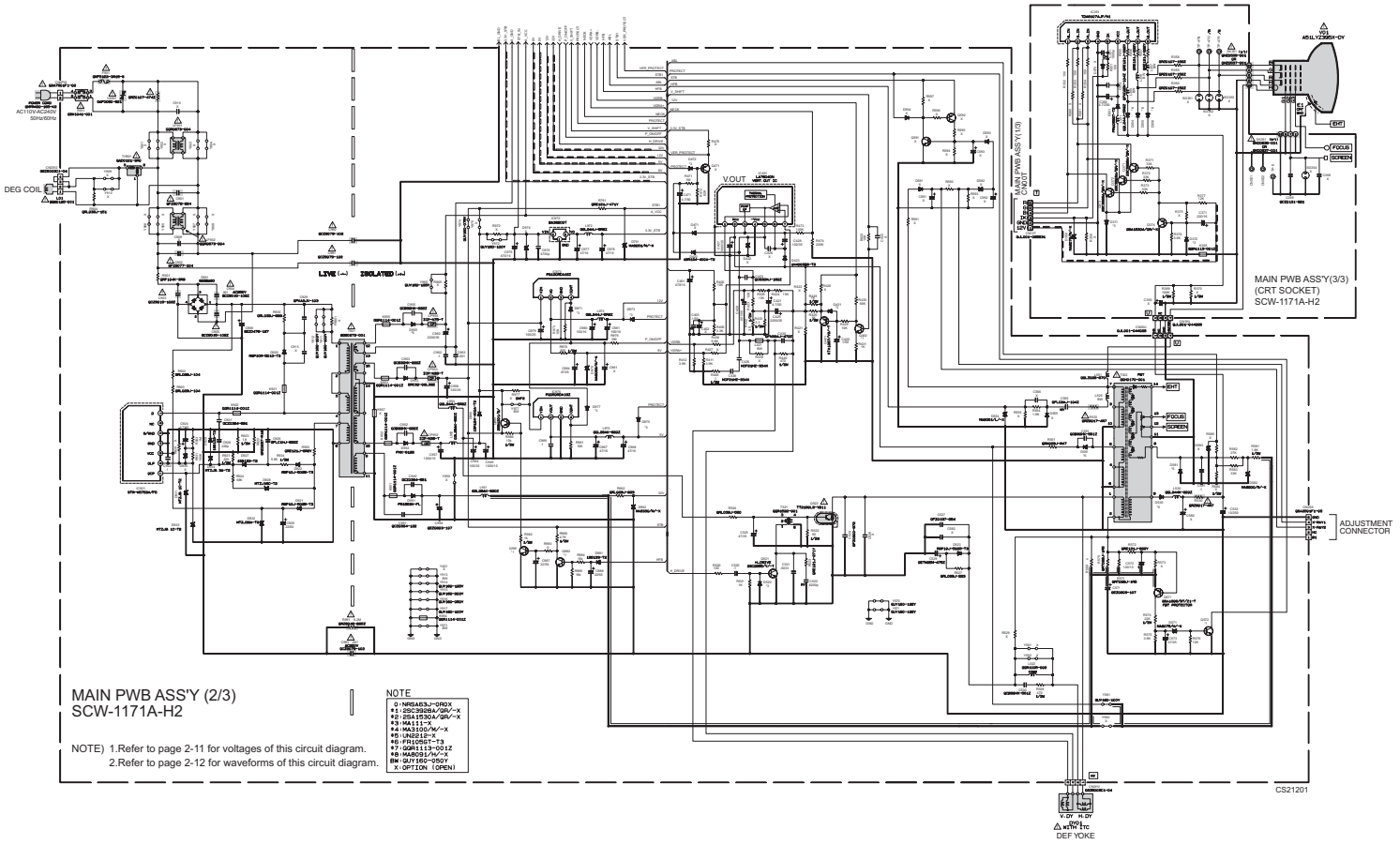
MAIN PWB CIRCUIT DIAGRAM (1/3)



MAIN PWB ASS'Y (1/3)
SCW-1171A-H2

NOTE) 1.Refer to the part list for the part number of IC701 and IC702.
2.Refer to page 2-11 for voltages of this circuit diagram.
3.Refer to page 2-12 for waveforms of this circuit diagram.

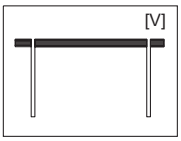
MAIN PWB CIRCUIT DIAGRAM (2/3), (3/3)



WAVEFORMS

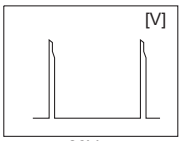
-MAIN PWB-

IC401-1



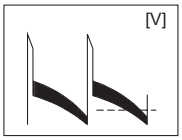
0.5Vp-p

IC401-3



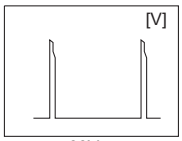
28Vp-p

IC401-5



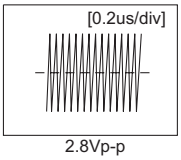
54Vp-p

IC401-6



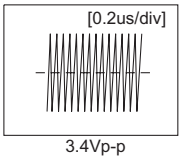
30Vp-p

IC701-10



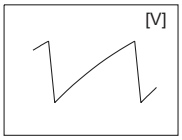
2.8Vp-p

IC701-11



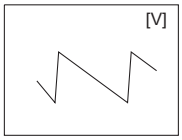
3.4Vp-p

IC701-22



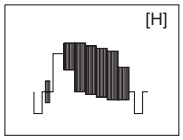
2.0Vp-p

IC701-23



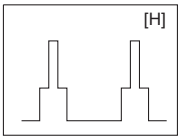
2.8Vp-p

IC701-48



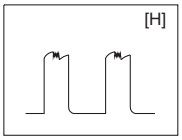
2.0Vp-p

IC701-66



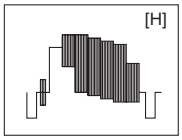
5.4Vp-p

IC701-67



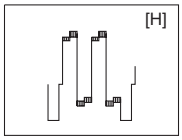
3.6Vp-p

IC701-74



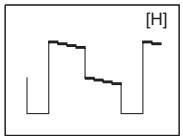
1.3Vp-p

IC701-85



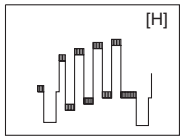
2.2Vp-p

IC701-86



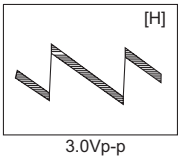
1.8Vp-p

IC701-87



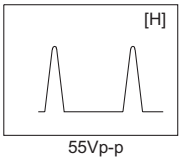
2.4Vp-p

T522-2



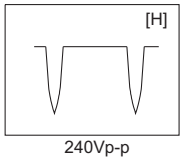
3.0Vp-p

T522-3



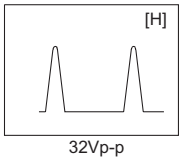
55Vp-p

T522-5



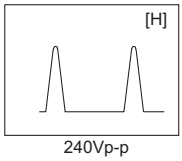
240Vp-p

T522-7



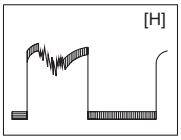
32Vp-p

T522-9



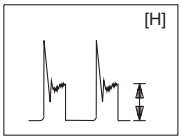
240Vp-p

Q521-B



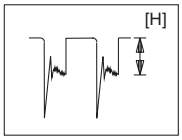
2.0Vp-p

Q521-C



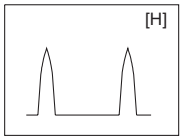
34Vp-p

Q522-B



100Vp-p

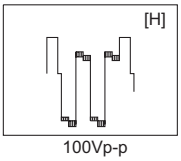
Q522-C



960Vp-p

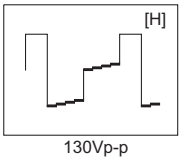
-CRT SOCKET PWB-

IC351-7



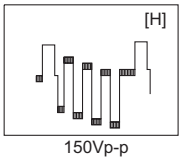
100Vp-p

IC351-8



130Vp-p

IC351-9



150Vp-p